

Sherwin-Williams Site Cleanup

Emeryville, California

July 27, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of July 18 and going through July 22, 2011. Following is a brief overview of site activities occurring during this period and a discussion of air monitoring results compared to site action levels. Charts and figures are attached which show running averages for contaminants of concern having detections during air sampling; Respirable Particulate Matter of 10 micrometers or less (RPM₁₀) running averages; Total Volatile Organic Compounds (TVOC) running averages; and wind speed and direction.

Site Activities

Site activities include:

- Installation of wind socks at each air monitoring station (AMS) in order to verify local wind direction;
- Installation of vehicle decontamination station at gate near ramp to Halleck Street;
- Excavation of soil and debris (asphalt, concrete) in the third excavation layer (vadose zone material beneath the raised cap);
- Stockpiling and direct-loading of non-hazardous material into trucks for transport to local landfills;
- Stockpiling and loading of rail cars with non-RCRA, California regulated waste;
- Stockpiling and loading of RCRA waste into rail cars;
- Construction of an excavation dewatering system and excavation within the saturated zone. Dewatering activities were initiated on July 21.
- A 71 railcar train of California regulated waste was transported on Wednesday July 20 to ECDC landfill in East Carbon, Utah.
- A street sweeper was used to control dust due to truck traffic on the surrounding streets.

Air Monitoring and Sampling

Perimeter air monitoring occurred continuously through the week. Per DTSC approval, on July 15, the sampling program for arsenic and lead was modified from continuous sampling to targeted sampling on days with excavation of soils with highest arsenic and lead concentrations, and sampling program for VOCs were temporally suspended for the vadose zone sampling, again with targeted sampling on days with excavation of soils with highest VOC concentrations. Continuous VOC sampling program was resumed on July 21 with excavation of saturated soils.



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No exceedances of air quality standards occurred during the week. Aerosol particles less than 10 micrometers from the perimeter mister lines are being measured in the dust monitors at the site perimeter. To account for the influence of the misters on the RPM10 levels, a delta value was added to the action level of Air Monitoring Station (AMS) #3 and the station directly downwind to AMS#3. This approach has been validated by air sample collection and analysis. Subsequent 4 hour rolling averages for RPM10 have been below the action levels at all AMSs. Running averages for TVOC and RPM10 since the start of the project continue to be below their respective action levels at all AMSs.

If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.



DAILY REPORT

334 19th St, Oakland, CA 94612
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PROJECT NAME

SCA PRJ #
Zone:
Inspected by: JY
Reviewed by: CS

Sherwin-Williams, Emeryville, CA
B10036
Activities:
Date:

Sent to:
SCA
CDM
CDM

Name
Chuck Siu
D Cline
P.Sharma

Mon 7/18/11

Daily Results (*metal samples are 5hrs, 5hrs, no night time metal samples)	Station 2	Station 3	Station 5	Standards (acute)
Arsenic(respirable) AM $\mu\text{g}/\text{m}^3$ (5hr samples)	< 0.008	0.067	0.027	N/A
Arsenic(respirable) PM $\mu\text{g}/\text{m}^3$ (5hr samples)	< 0.008	0.088	0.016	N/A
Arsenic(respirable) nite $\mu\text{g}/\text{m}^3$	NA	NA	NA	N/A
Lead(respirable) AM $\mu\text{g}/\text{m}^3$	< 0.008	0.048	0.021	N/A
Lead(respirable) PM $\mu\text{g}/\text{m}^3$	< 0.008	0.065	0.013	N/A
Lead(respirable) nite $\mu\text{g}/\text{m}^3$	NA	NA	NA	N/A
Benzene $\mu\text{g}/\text{m}^3$	0.26	0.39	0.39	29
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	45331
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.03	< 0.03	< 0.03	9986
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.44	< 0.44	< 0.44	737
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	1358
toluene $\mu\text{g}/\text{m}^3$	1.1	2.0	1.0	603
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	7309
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	11798
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	11798
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	647
xylenes $\mu\text{g}/\text{m}^3$	< 13	< 13	< 13	1302
Converted 5hr Arsenic Sample results to 4hr results, 24hrTWA results for Arsenic & 24TWA results for Lead(*if AM, PM & Nite samples are all non detected for the same station, use the highest detection limit value as the TWA for that station. If there is detection, calculate using the detection value & detection limit values				Acute Standard
Arsenic(respirable) AM $\mu\text{g}/\text{m}^3$	< 0.008	0.084	0.034	0.20
Arsenic(respirable) PM $\mu\text{g}/\text{m}^3$	< 0.008	0.110	0.020	0.20
Arsenic 24HR TWA $\mu\text{g}/\text{m}^3$	< 0.008	< 0.034	< 0.011	N/A
Lead 24HR TWA $\mu\text{g}/\text{m}^3$	< 0.008	< 0.025	< 0.009	N/A
Running Averages	Station 2	Station 3	Station 5	Standard (subchronic)
Arsenic(respirable) $\mu\text{g}/\text{m}^3$	< 0.009	< 0.011	< 0.011	0.015
Lead (respirable) $\mu\text{g}/\text{m}^3$	< 0.009	< 0.013	< 0.008	0.15
Benzene $\mu\text{g}/\text{m}^3$	0.34	0.51	0.33	0.6
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	737
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.028	< 0.028	< 0.028	0.03
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.8	< 0.56	8.9
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	0.2
toluene $\mu\text{g}/\text{m}^3$	1.54	8.92	3.57	300
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	0.7
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.62	< 0.54	12
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	12
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	0.01
xylenes $\mu\text{g}/\text{m}^3$	< 13	< 13.7	< 13	434



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PROJECT NAME

SCA PRJ #

Zone:

Inspected by: JY

Reviewed by: CS

Sherwin-Williams, Emeryville, CA

B10036

Activities:

Date:

Sent to:

SCA
CDM

Name

Chuck Siu
D Cline
P.Sharma

Thu 7/21/11

Daily Results (*metal samples are 5hrs, 5hrs, &14hrs samples)	Station 2	Station 3	Station 5	Standards (acute)
Arsenic(respirable) AM $\mu\text{g}/\text{m}^3$ (5hr samples)	< 0.008	< 0.008	0.052	N/A
Arsenic(respirable) PM $\mu\text{g}/\text{m}^3$ (5hr samples)	< 0.009	0.019	0.083	N/A
Arsenic(respirable) nite $\mu\text{g}/\text{m}^3$	< 0.003	< 0.003	< 0.003	N/A
Lead(respirable) AM $\mu\text{g}/\text{m}^3$	< 0.008	< 0.008	0.036	N/A
Lead(respirable) PM $\mu\text{g}/\text{m}^3$	< 0.009	0.013	0.056	N/A
Lead(respirable) nite $\mu\text{g}/\text{m}^3$	< 0.003	< 0.003	< 0.003	N/A
Benzene $\mu\text{g}/\text{m}^3$	0.27	0.44	0.26	29
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	45331
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.03	< 0.03	< 0.03	9986
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.44	4.1	< 0.88	737
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	1358
toluene $\mu\text{g}/\text{m}^3$	1.5	55.0	9.9	603
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	7309
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	4.2	0.98	11798
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	11798
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	647
xylene $\mu\text{g}/\text{m}^3$	< 13	22	< 13	1302
Converted 5hr Arsenic Sample results to 4hr results, 24hrTWA results for Arsenic & 24TWA results for Lead(*if AM, PM & Nite samples are all non detected for the same station, use the highest detection limit value as the TWA for that station. If there is detection, calculate using the detection value & detection limit values				Acute Standard
Arsenic(respirable) AM $\mu\text{g}/\text{m}^3$	< 0.008	< 0.008	0.065	0.20
Arsenic(respirable) PM $\mu\text{g}/\text{m}^3$	< 0.009	0.024	0.104	0.20
Arsenic 24HR TWA $\mu\text{g}/\text{m}^3$	< 0.009	< 0.007	< 0.030	N/A
Lead 24HR TWA $\mu\text{g}/\text{m}^3$	< 0.009	< 0.006	< 0.021	N/A
Running Averages	Station 2	Station 3	Station 5	Standard (subchronic)
Benzene $\mu\text{g}/\text{m}^3$	0.34	0.51	0.33	0.6
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	737
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.028	< 0.028	< 0.028	0.03
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.49	< 0.96	< 0.57	8.9
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	0.2
toluene $\mu\text{g}/\text{m}^3$	1.53	11.11	3.87	300
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	0.7
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.79	< 0.56	12
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	12
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	0.01
xylene $\mu\text{g}/\text{m}^3$	< 13	< 14.1	< 13	434



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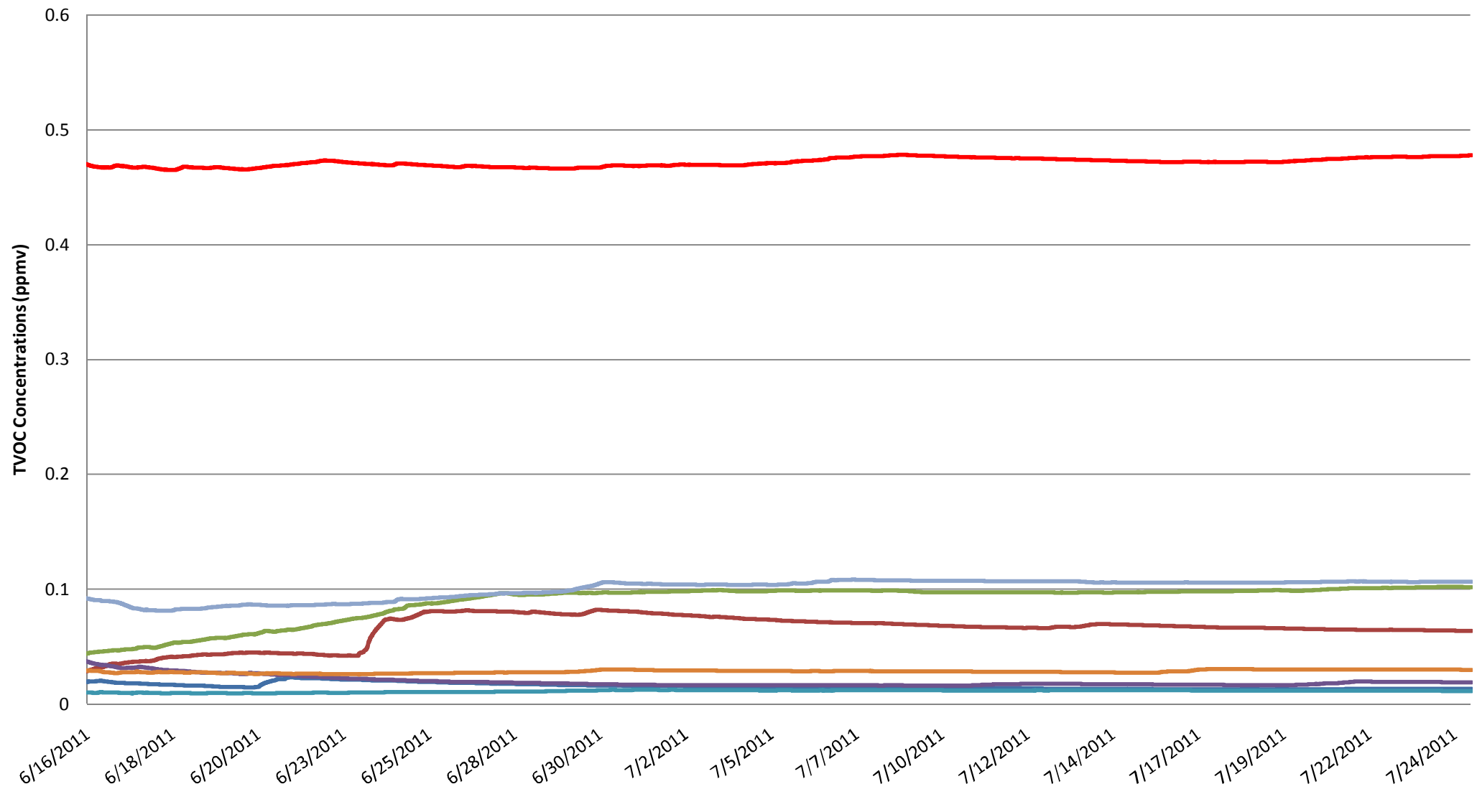
Thu 7/21/11 7/22/11

	Station 2	Station 3	Station 5	Standards (acute)
Benzene $\mu\text{g}/\text{m}^3$	0.35	0.46	0.27	29
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	45331
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.03	< 0.03	< 0.03	9986
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.44	0.72	< 0.44	737
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	1358
toluene $\mu\text{g}/\text{m}^3$	3.7	6.6	1.1	603
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	7309
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	1	< 0.5	11798
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	11798
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	647
xylenes $\mu\text{g}/\text{m}^3$	< 13	< 13	< 13	1302
Running Averages	Station 2	Station 3	Station 5	Standard (subchronic)
Benzene $\mu\text{g}/\text{m}^3$	0.34	0.51	0.33	0.6
MEK $\mu\text{g}/\text{m}^3$	< 30	< 30	< 30	737
1,2-dichloroethane $\mu\text{g}/\text{m}^3$	< 0.028	< 0.028	< 0.028	0.03
ethylbenzene $\mu\text{g}/\text{m}^3$	< 0.49	< 0.95	< 0.57	8.9
tetrachlorethene $\mu\text{g}/\text{m}^3$	< 0.17	< 0.17	< 0.17	0.2
toluene $\mu\text{g}/\text{m}^3$	1.63	10.91	3.74	300
trichloroethene $\mu\text{g}/\text{m}^3$	< 0.55	< 0.55	< 0.55	0.7
1,2,4-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.8	< 0.56	12
1,3,5-trimethylbenzene $\mu\text{g}/\text{m}^3$	< 0.5	< 0.5	< 0.5	12
vinyl chloride $\mu\text{g}/\text{m}^3$	< 0.01	< 0.01	< 0.01	0.01
xylenes $\mu\text{g}/\text{m}^3$	< 13	< 14.05	< 13	434

TVOC Running Average Since 06/16/11

Station 1 Station 2 Station 3 Station 4 Station 5 Station 6 Station 7 Subchronic Action Level

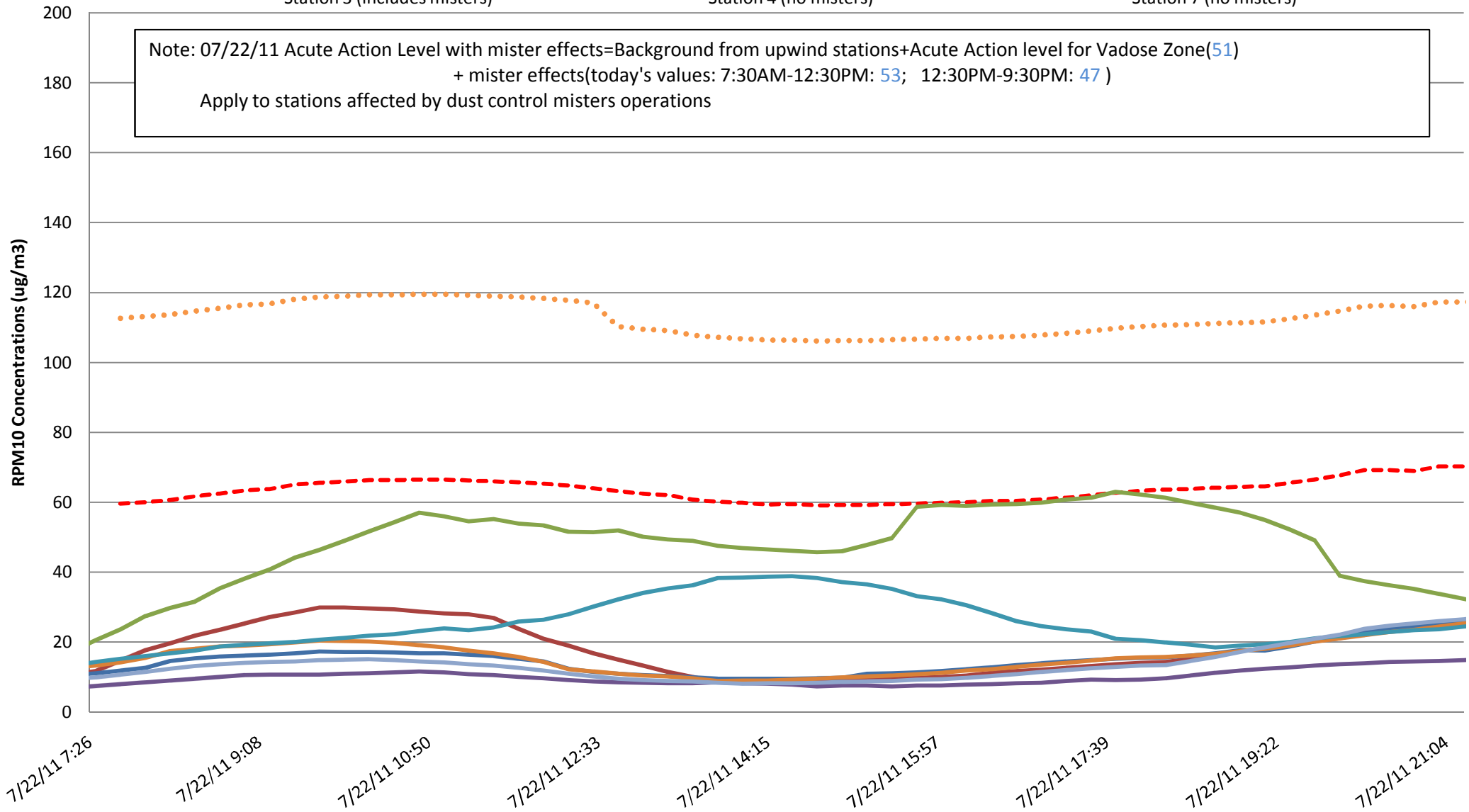
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



RPM10 4-Hour Rolling Average on 07/22/11

- Acute Action Level with misters
- Acute Action Level without misters
- Station 5 (no misters)
- Station 2 (includes misters)
- Station 1 (no misters)
- Station 6 (no misters)
- Station 3 (includes misters)
- Station 4 (no misters)
- Station 7 (no misters)

Note: 07/22/11 Acute Action Level with mister effects=Background from upwind stations+Acute Action level for Vadose Zone(51)
+ mister effects(today's values: 7:30AM-12:30PM: 53; 12:30PM-9:30PM: 47)
Apply to stations affected by dust control misters operations



RPM10 Running Average Since 06/16/11

Station 1
Station 4
Station 7

Station 2
Station 5

Station 3
Station 6

Subchronic Action Level with misters

Subchronic Action Level without misters

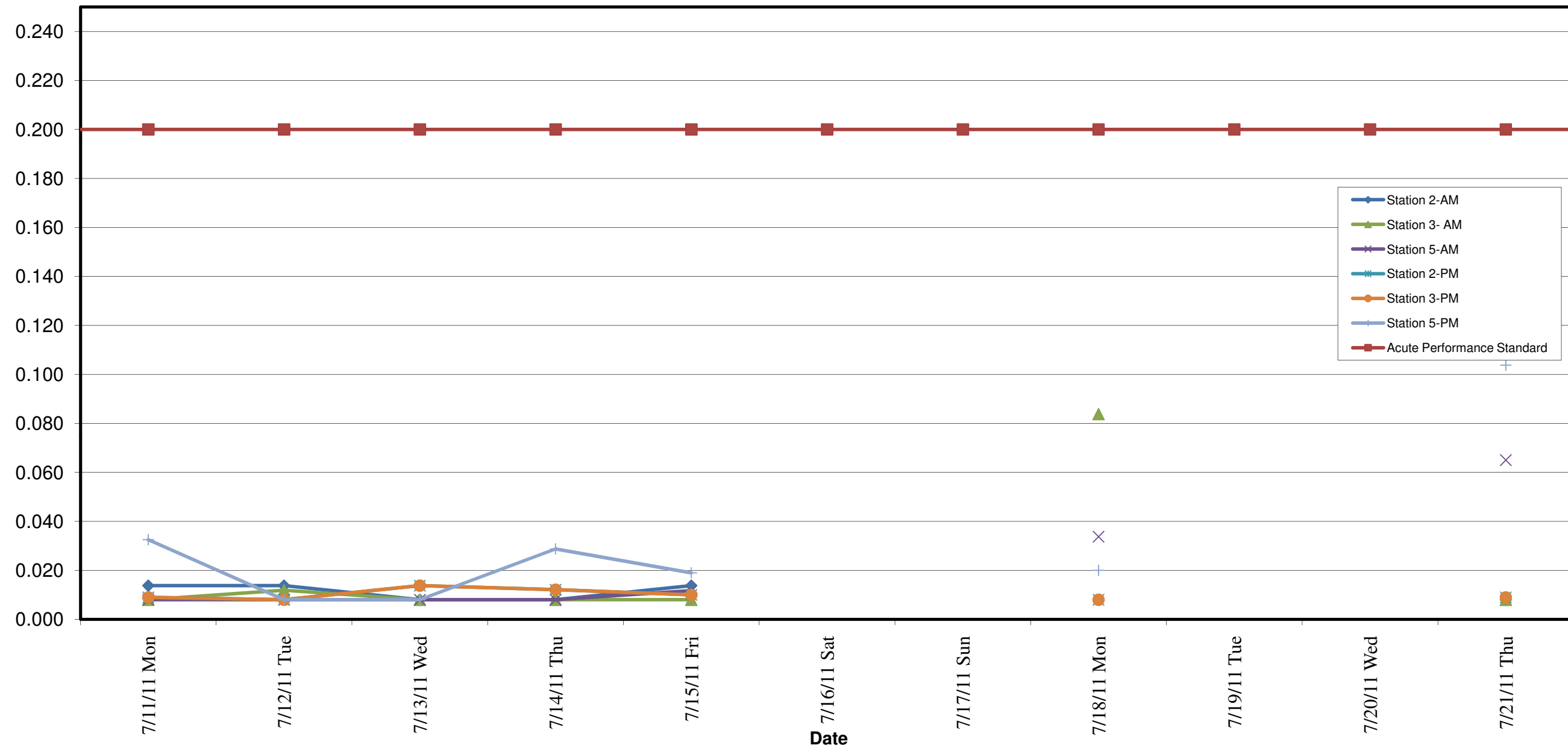
Note: 07/22/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone(16)
+Mister effects(today's values:7:30AM-12:30PM:53 12:30PM-5:30PM:47)
Action level for non working hours & weekend=50 (BAAQMD Regulatory value)

RPM10 Concentrations (ug/m3)

6/16/2011 6/18/2011 6/20/2011 6/23/2011 6/25/2011 6/28/2011 6/30/2011 7/2/2011 7/5/2011 7/7/2011 7/10/2011 7/12/2011 7/14/2011 7/17/2011 7/19/2011 7/22/2011 7/24/2011

60
50
40
30
20
10
0

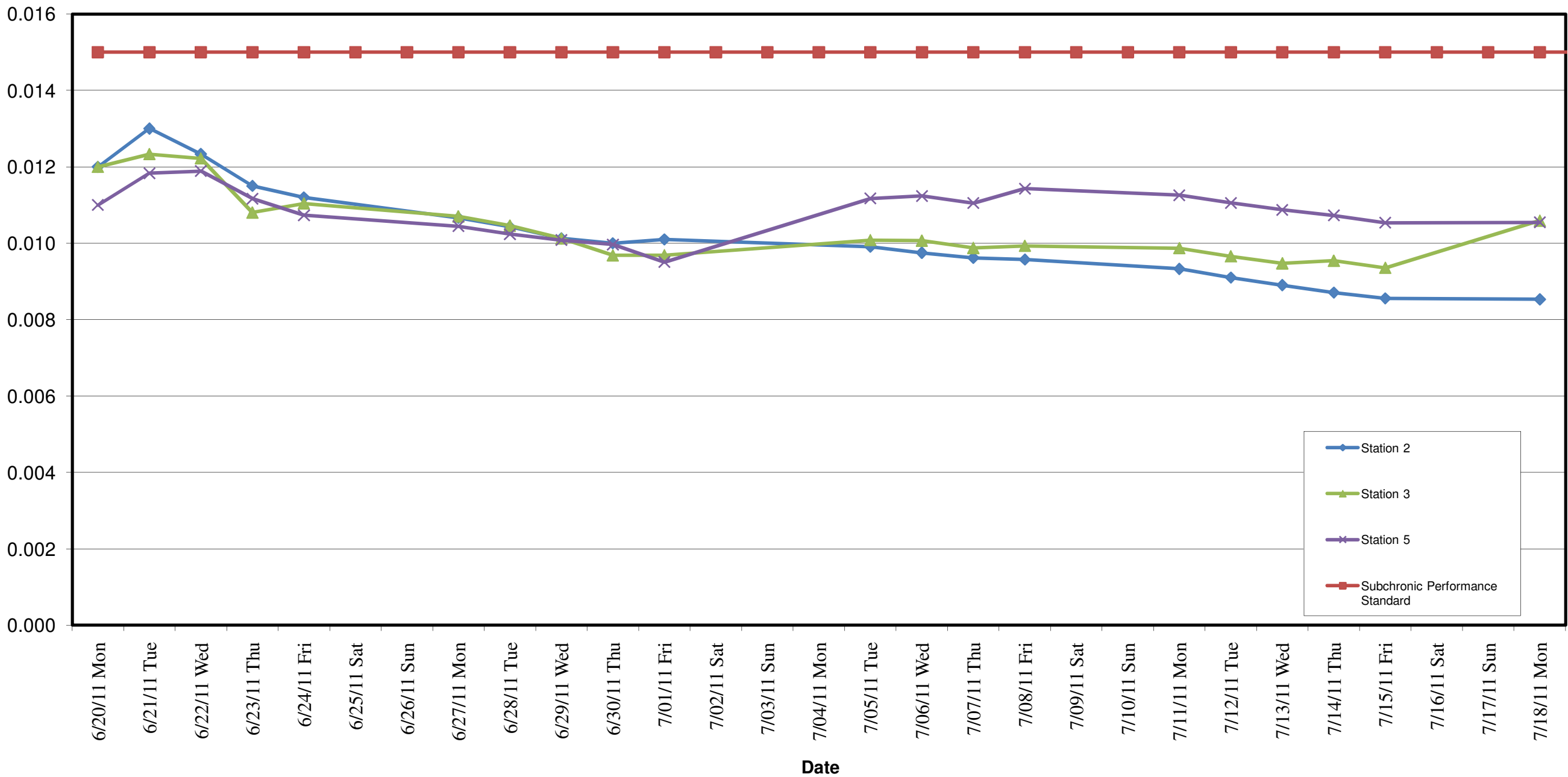
Airborne Arsenic Level ($\mu\text{g}/\text{m}^3$)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From-07/11-07/21/2011
Analyzed by ICP/MS



Note:

- a. non-detectable values, are plotted using the detection limit values
- b. Per DTSC approval, on July 15th, the sampling program for arsenic and lead was modified from continuous sampling to targeted sampling on days with excavation of soils with highest arsenic and lead concentrations

Airborne Arsenic Running Average During Working Days ($\mu\text{g}/\text{m}^3$)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From-06/20-07/18/2011
Analyzed by ICP/MS

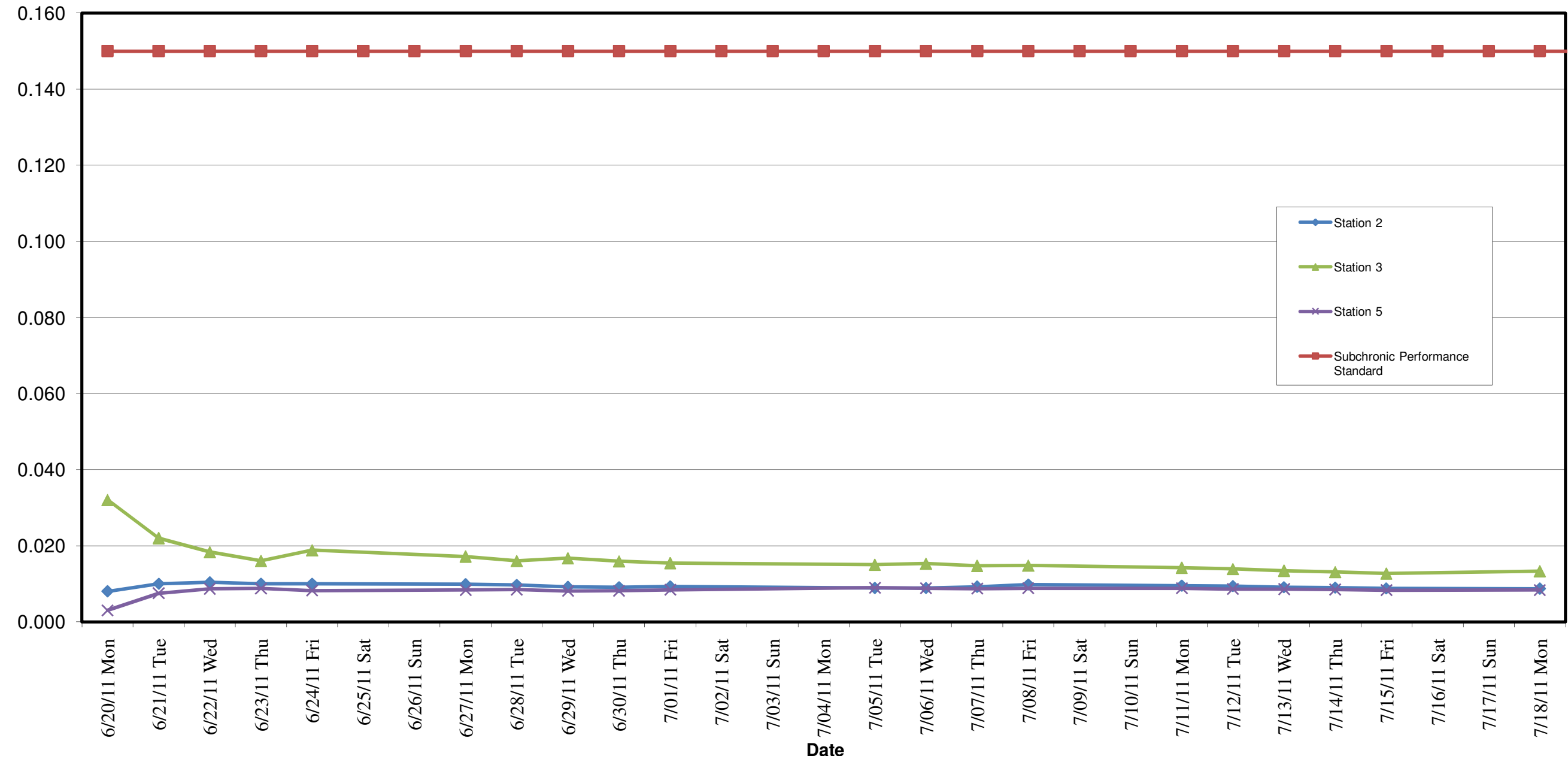


Note:

a. non-detectable values, are plotted using the detection limit values

b. Per DTSC approval, on July 15, the sampling program for arsenic and lead was modified from continuous sampling to targeted sampling on days with excavation of soils with highest arsenic and lead concentrations. As such, future calculation of running averages of arsenic and lead is no longer appropriate. The targeted sampling results for arsenic and lead will continue to be presented in the weekly summary tables.

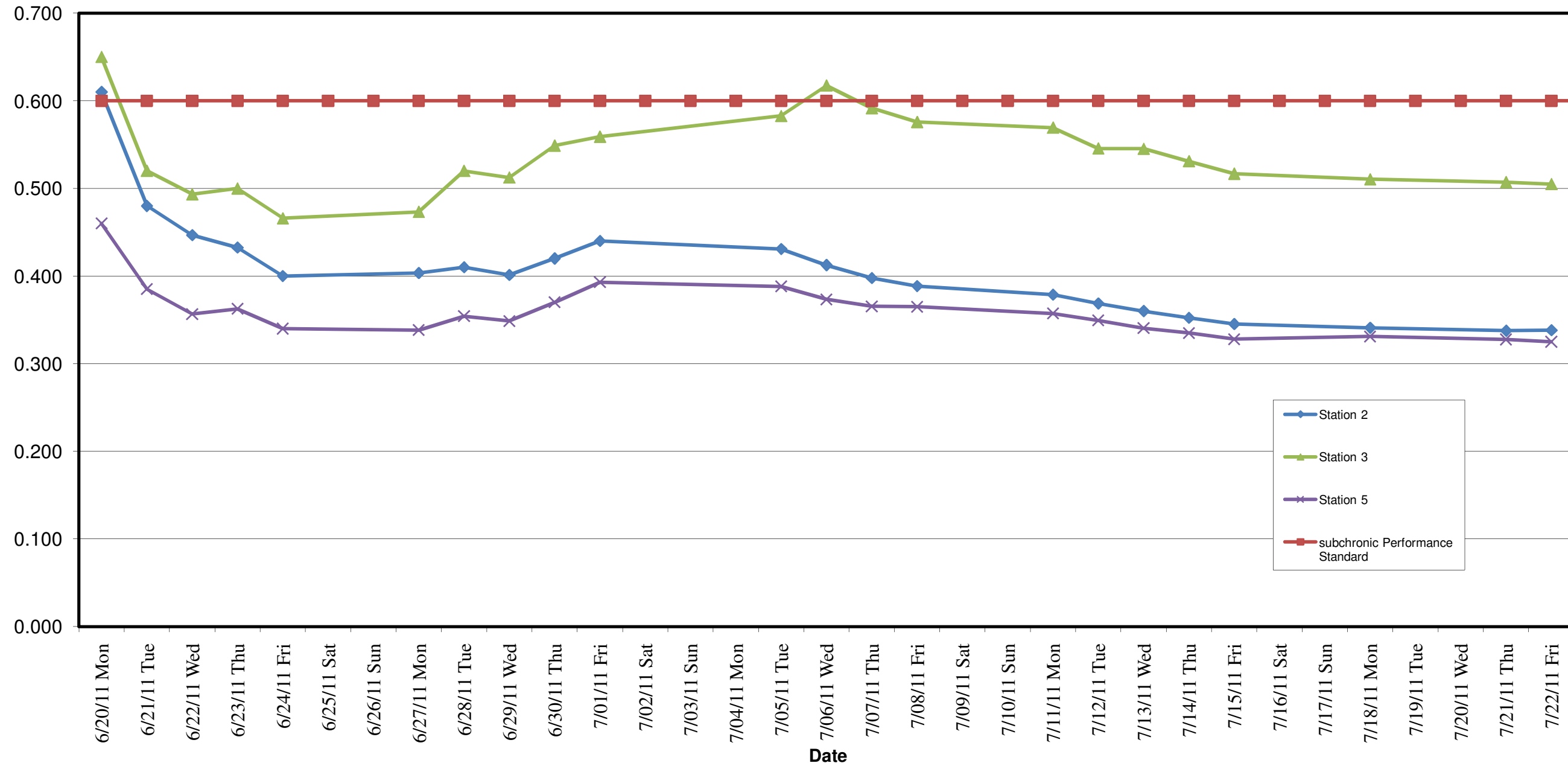
Airborne Pb Running Average During Working Days ($\mu\text{g}/\text{m}^3$)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From-06/20-07/18/2011
Analyzed by ICP/MS



Note:

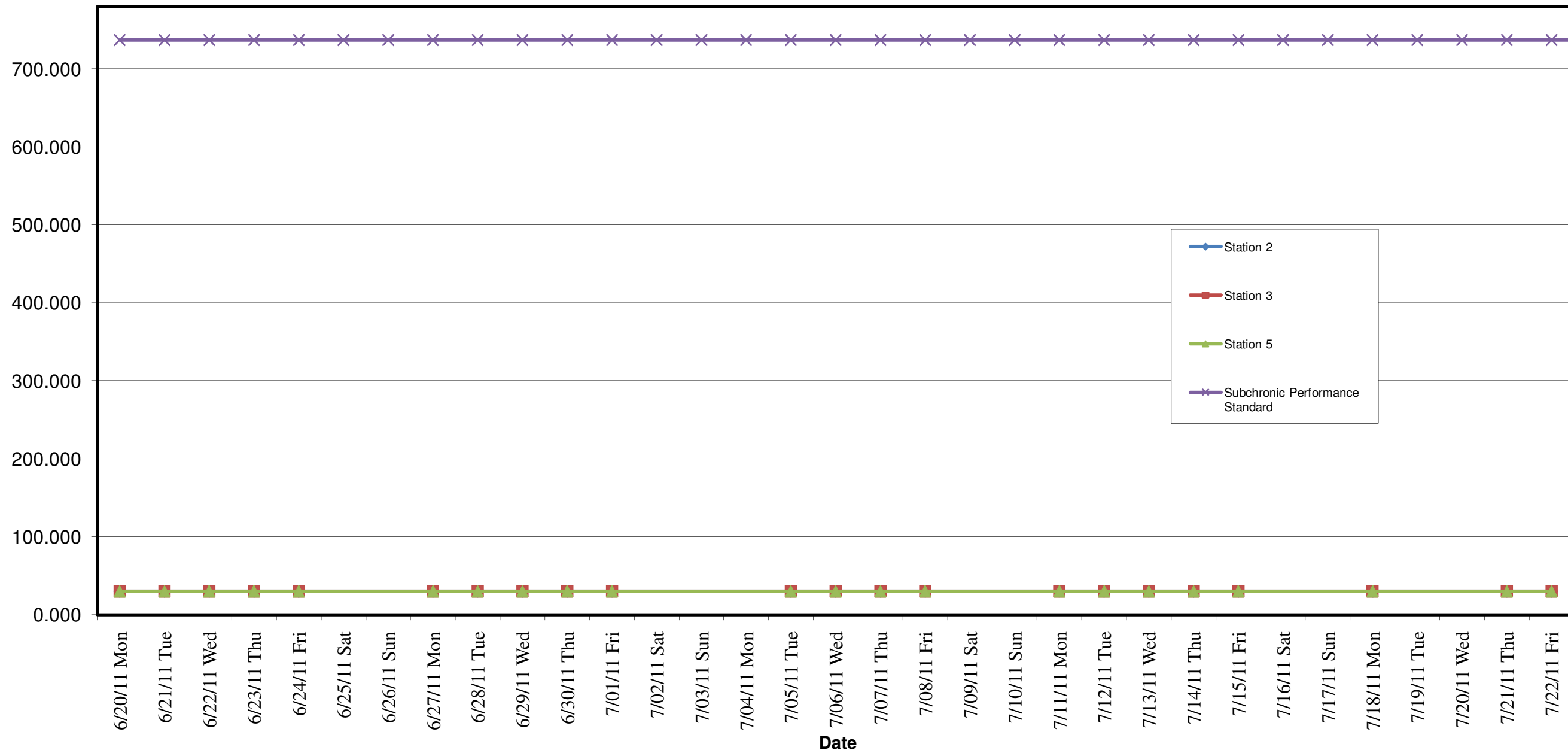
- a. non-detectable values, are plotted using the detection limit values
- b. Per DTSC approval, on July 15, the sampling program for arsenic and lead was modified from continuous sampling to targeted sampling on days with excavation of soils with highest arsenic and lead concentrations. As such, future calculation of running averages of arsenic and lead is no longer appropriate. The targeted sampling results for arsenic and lead will continue to be presented in the weekly summary tables.

Airborne Benzene Running Average ($\mu\text{g}/\text{m}^3$)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From-06/20-07/22/2011
Summa Canisters Analyzed by TO15



Note: Detection values reflect the background level

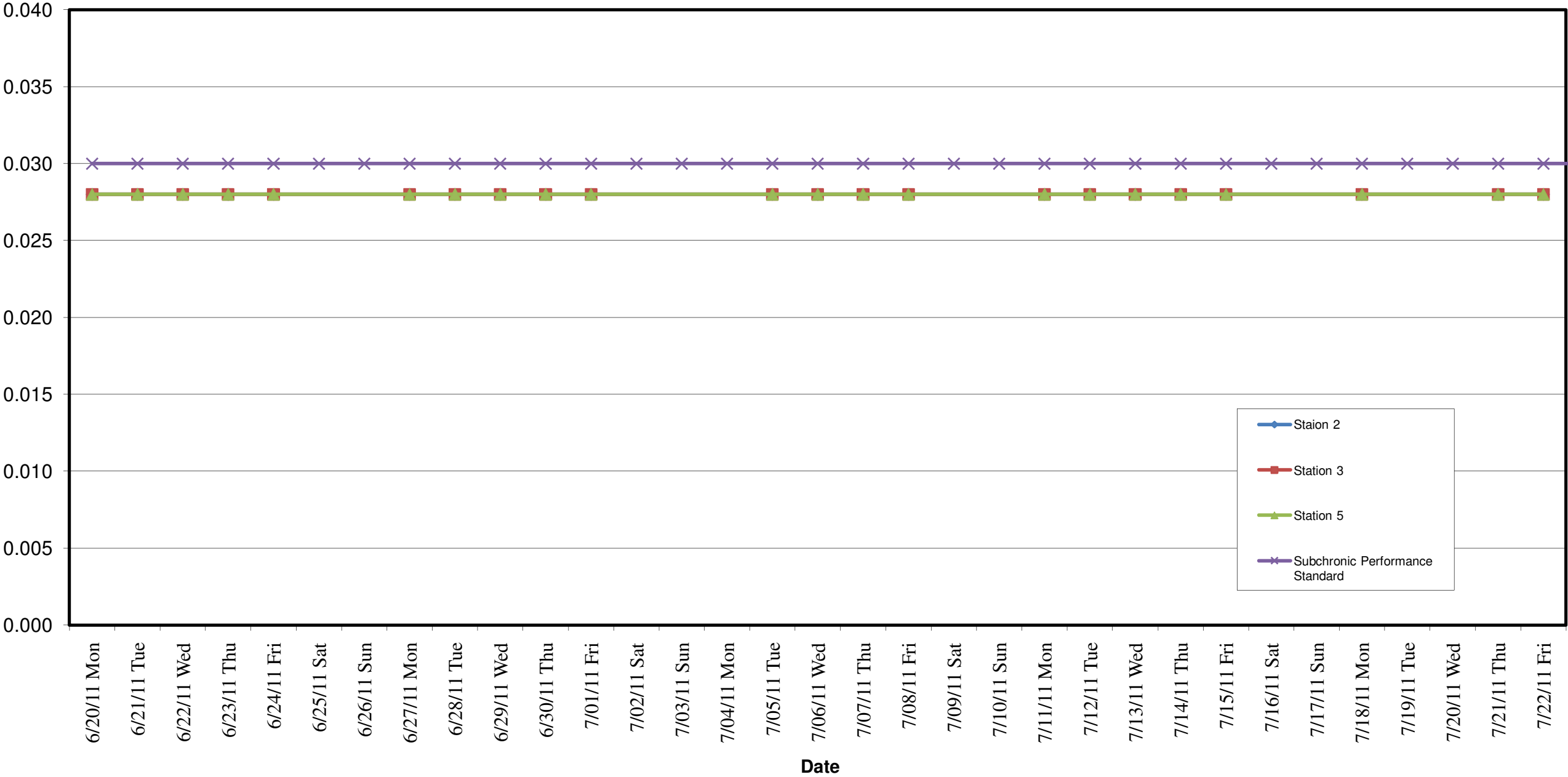
Airborne MEK Running Average ($\mu\text{g}/\text{m}^3$)
Sherwin-Williams @ Horton & Sherwin, Emeryville -From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



Notes:

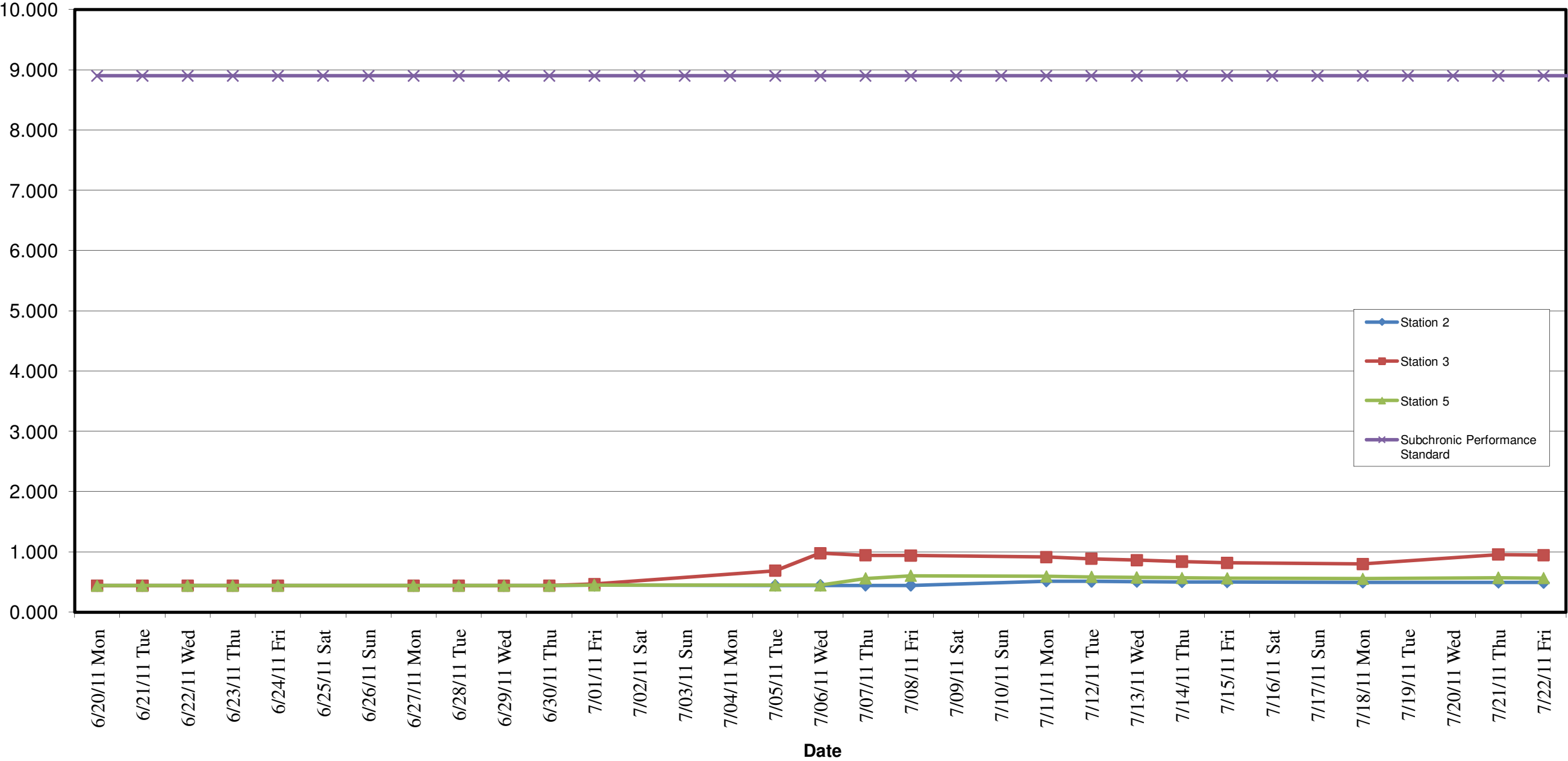
a. non-detectable values, are plotted using the detection limit values

Airborne 1,2-Dichloroethane Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



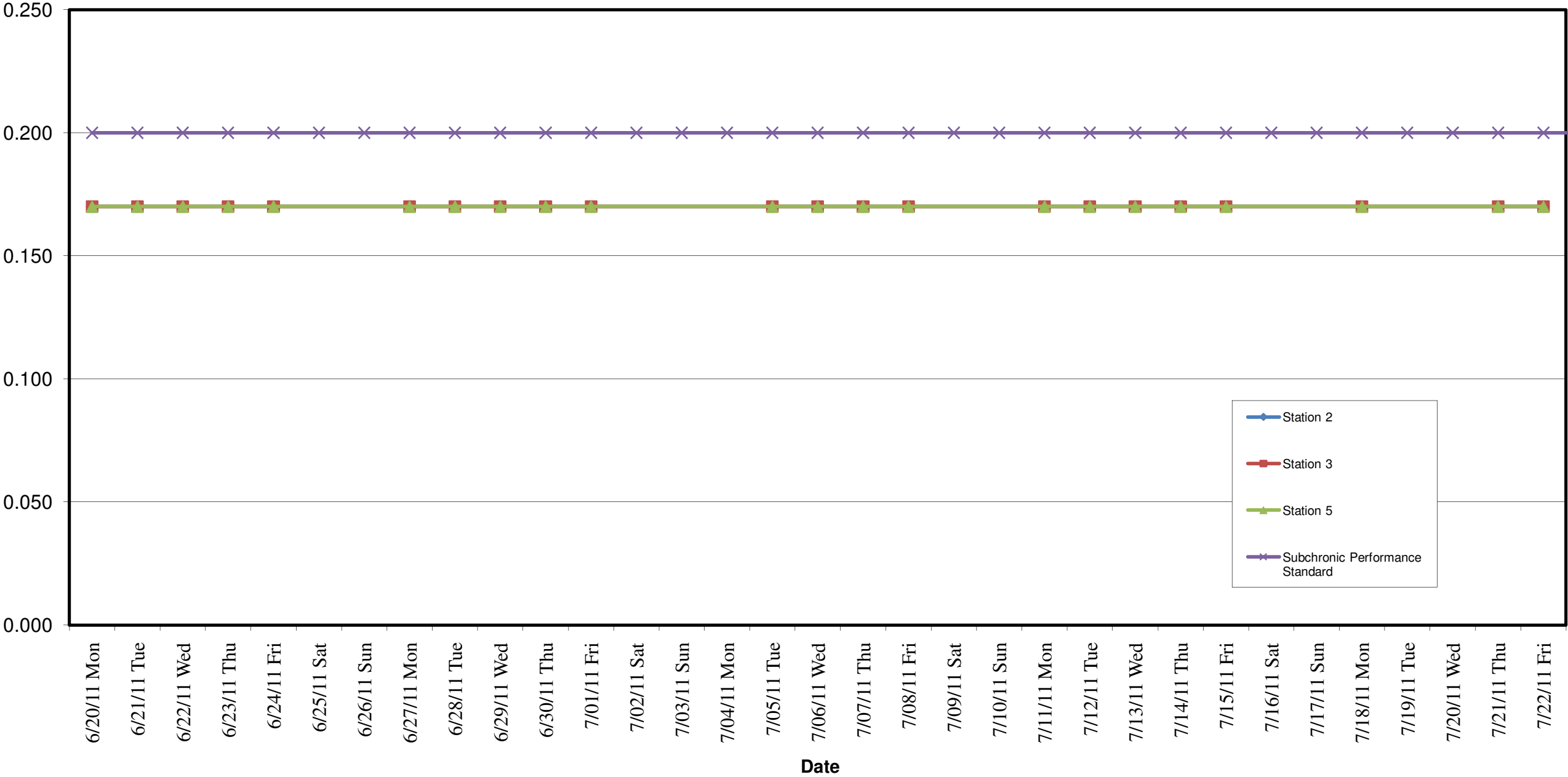
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Ethyl Benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



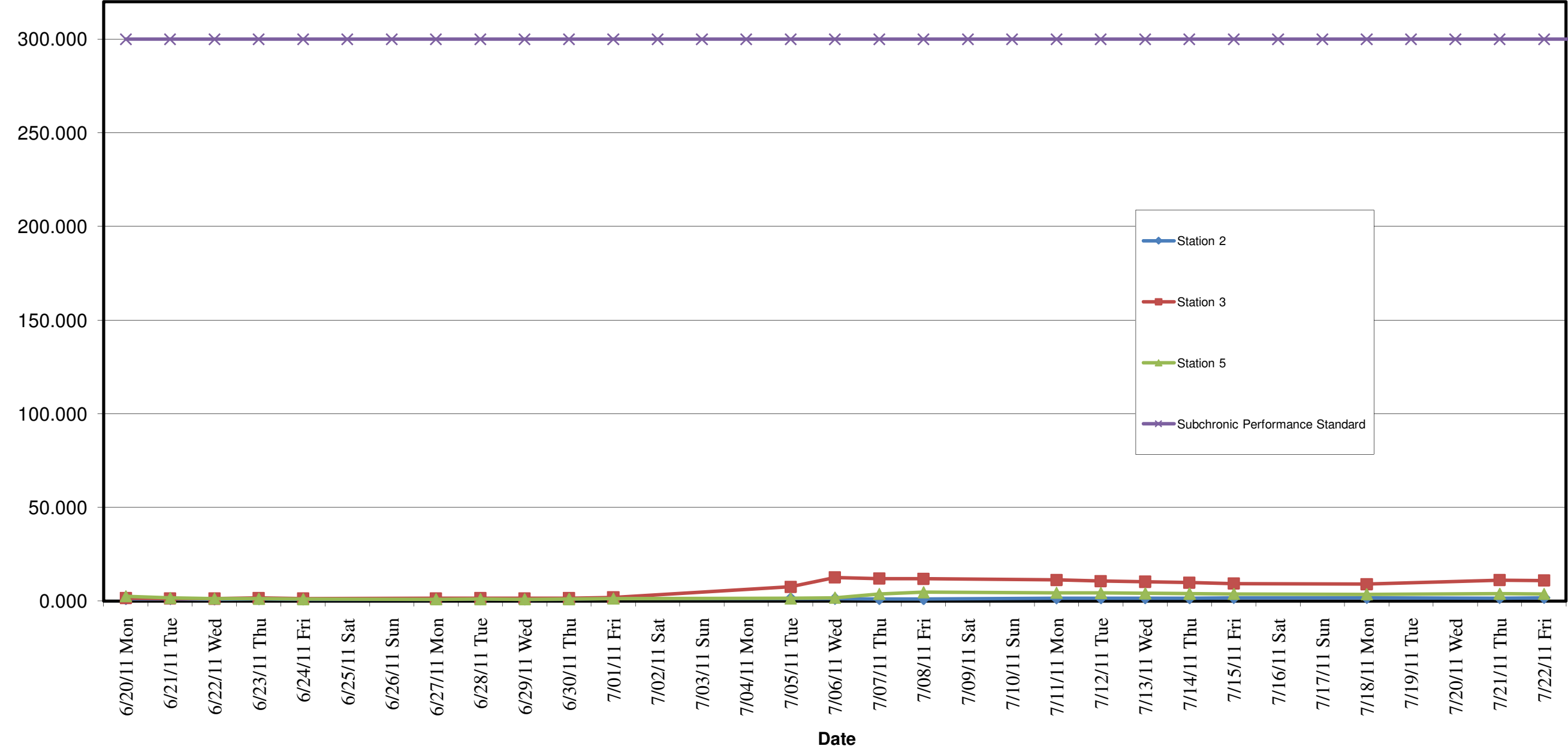
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Tetrachloroethane Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



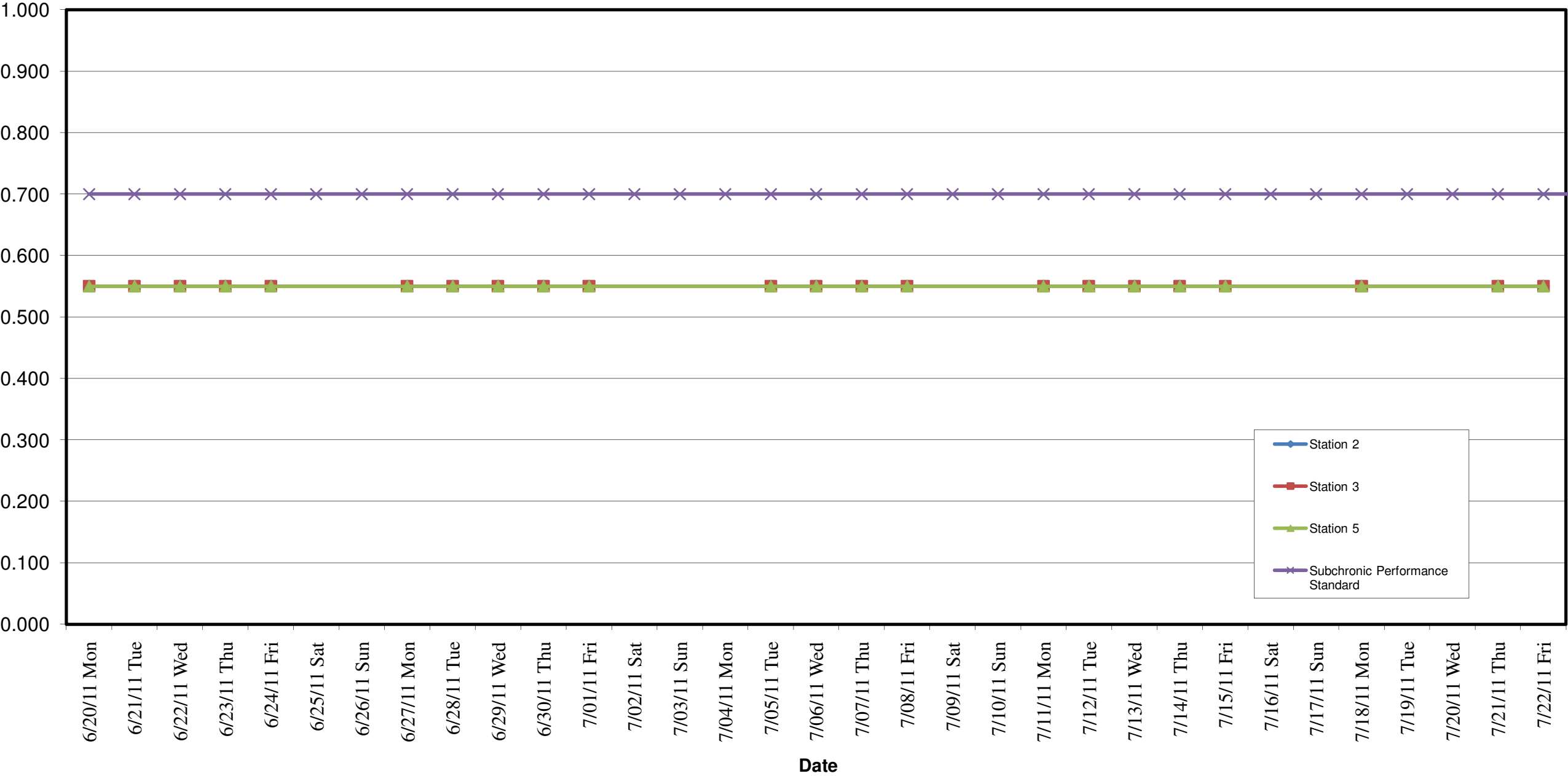
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne Toluene Running Average
(µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



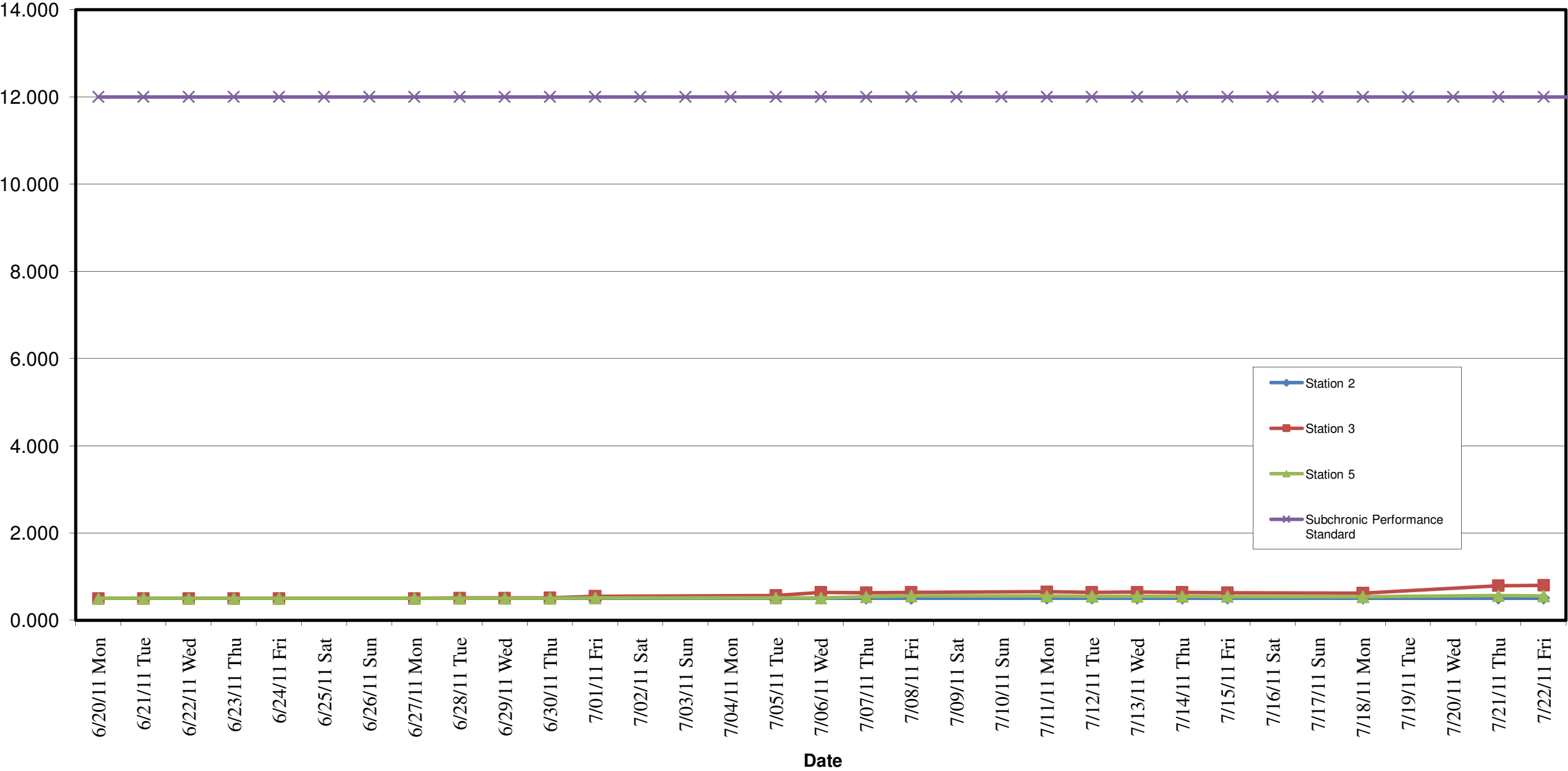
Notes:
a. Detection values reflect the background level

Airborne Trichloroethene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



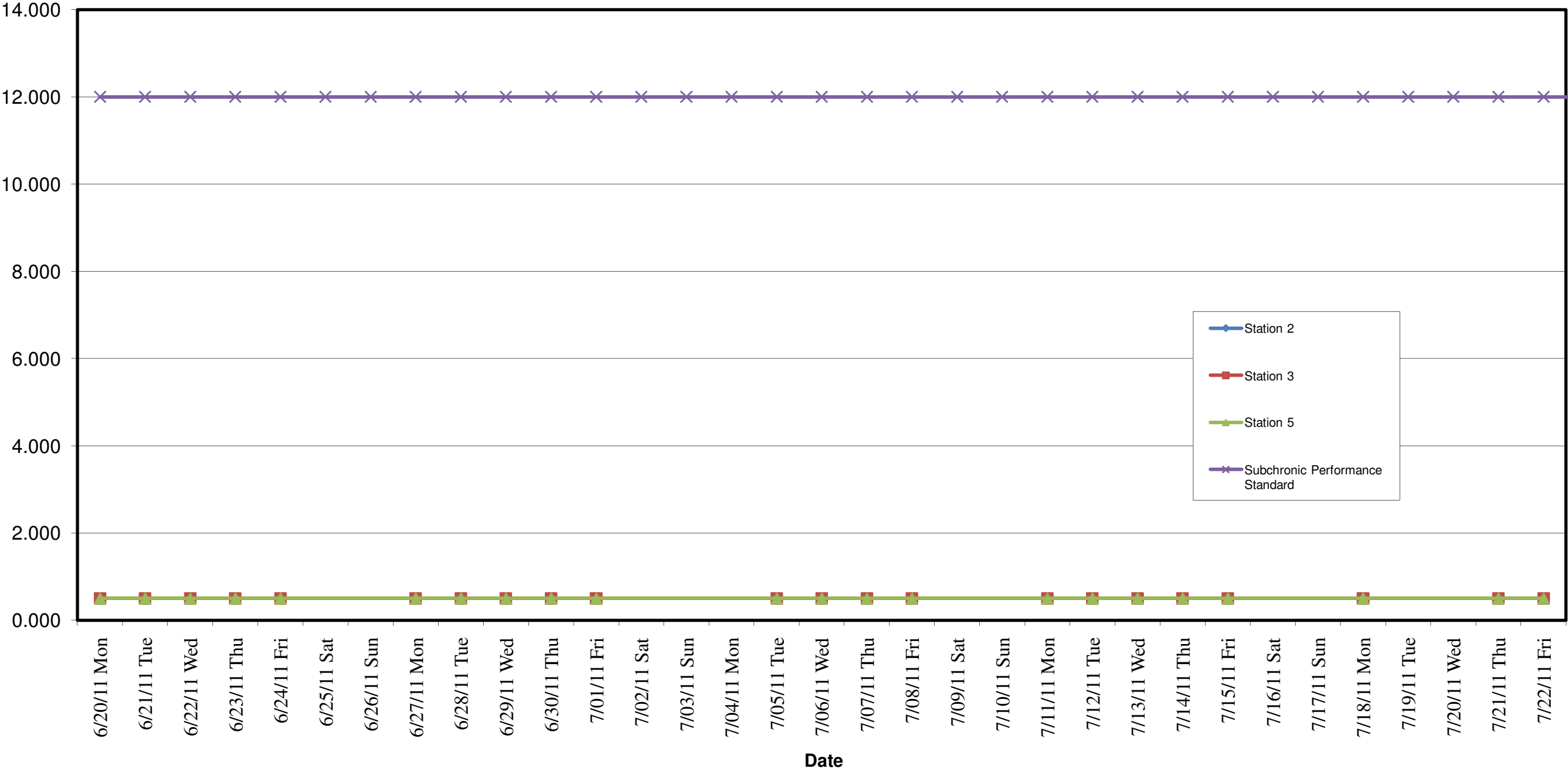
Notes:
a. non-detectable values, are plotted using the detection limit values

Airborne 1,2,4-trimethyl benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



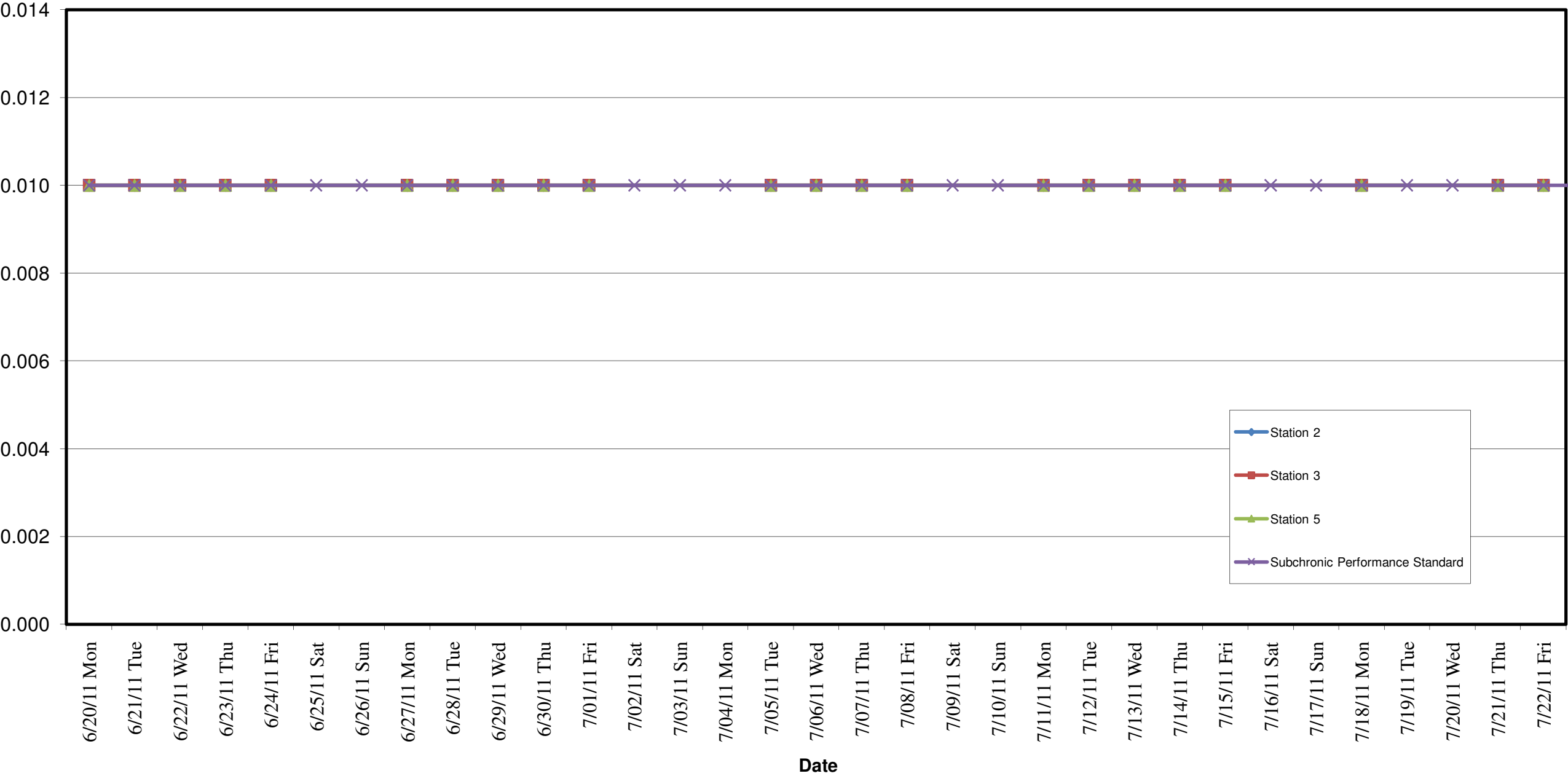
Notes:
a. non-detectable values, are plotted using detection limit values

Airborne 1,3,5-trimethyl benzene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



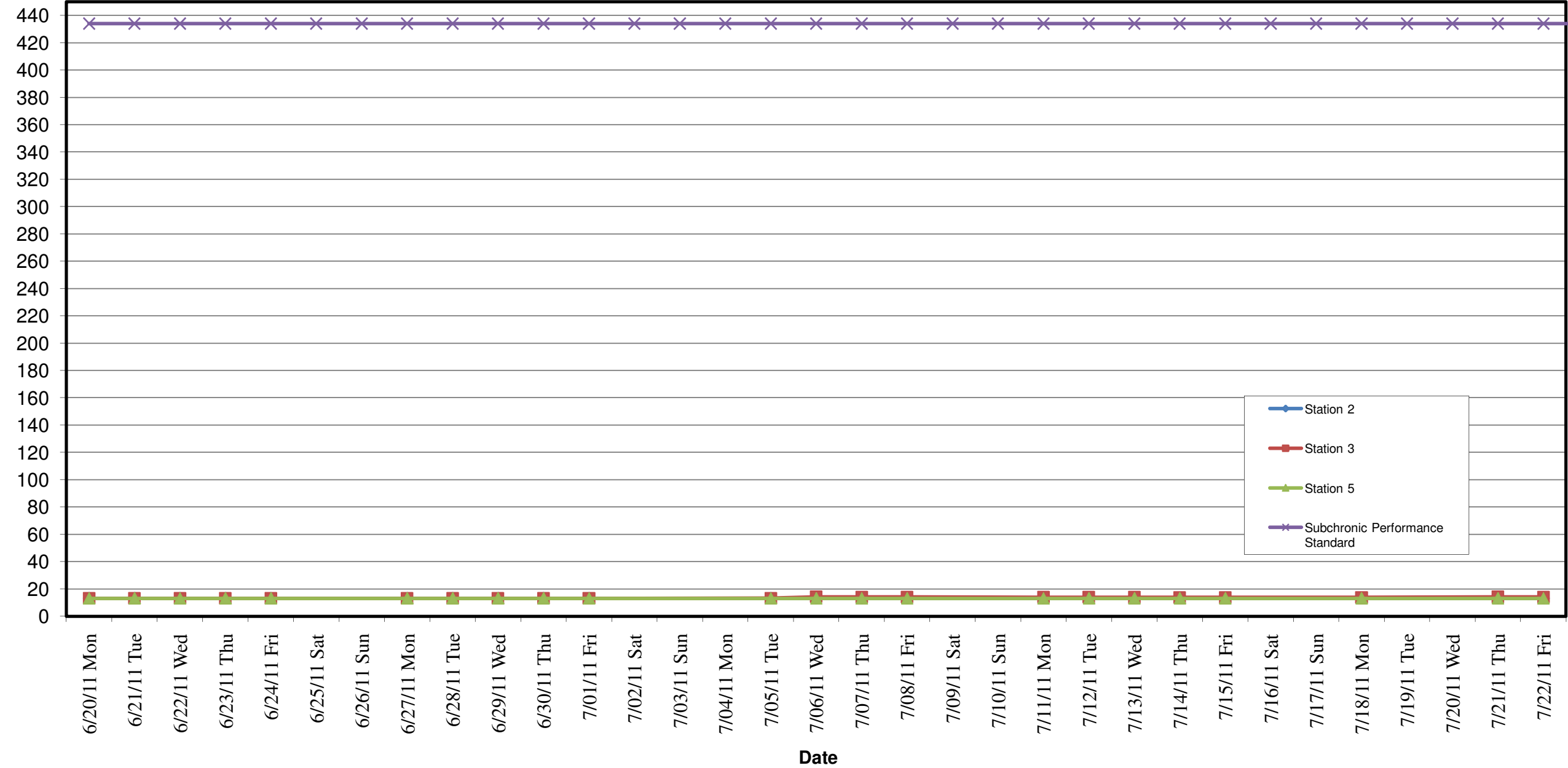
Notes:
a. non-detectable values, are plotted using detection limit values

Airborne Vinyl Chloride Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15



Notes:
a. non-detectable values, are plotted using detection limit values

Airborne Xylene Running Average (µg/m³)
Sherwin-Williams @ Horton & Sherwin, Emeryville - From 06/20-07/22/2011
Summa Canisters Analyzed by TO15

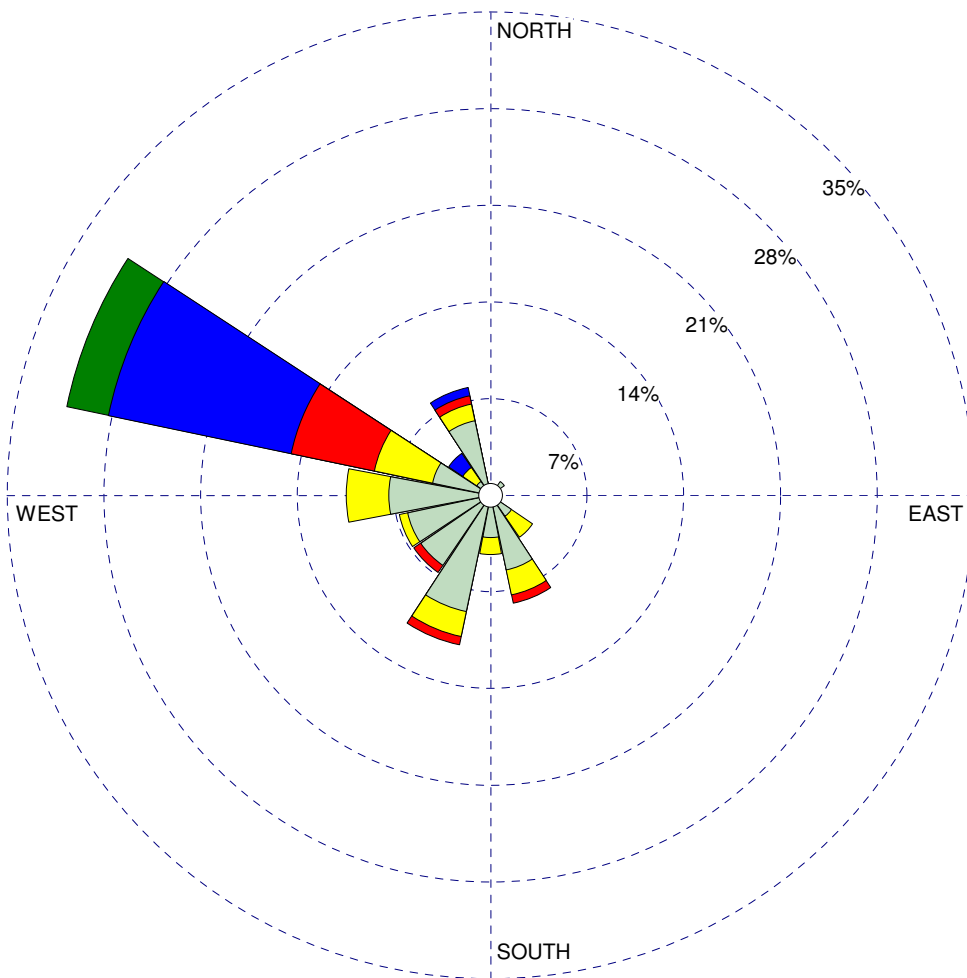


Notes:
a. non-detectable values, are plotted using detection limit values

WIND ROSE PLOT:

Staion #SW

DISPLAY:

Wind Speed
Direction (blowing from)

COMMENTS:

DATA PERIOD:

Start Date: 7/18/2011 - 01:00
End Date: 7/24/2011 - 23:00

COMPANY NAME:

CDM & SCA

MODELER:

CALM WINDS:

0.90%

TOTAL COUNT:

163 hrs.

AVG. WIND SPEED:

1.56 m/s

DATE:

7/26/2011

PROJECT NO.: